GSD-01 GENERAL SOURCE DATA— BASIC SOURCE LEVEL INFORMATION

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch
1 00 N. Senate Avenue
P.O. Box 6015
Indianapolis, IN 46206-6015
Telephone: (317) 233-0178 or
Toll Free: 1-800-451-6027 x30178 (within Indiana)
Facsimile Number: (317) 232-6749
Http://www.IN.gov/idem/air/permits/index.html

NOTES:

- The purpose of GSD-01 is to provide essential information about the entire source of air pollutant emissions. GSD-01 is a required form.
- Detailed instructions for this form are available online at http://www.IN.gov/idem/air/permits/apps/instructions/gsd01 instructions.pdf.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly, will result in your information becoming a public record, available for public inspection.

FOR OFFICE USE ONLY

PERMIT NUMBER:

PARTA: SOURCE LOCATION INFORMATION

1. Source Name: BP Products North America Inc., Whiting Business Unit

2. Portable/Stationary: Is this a portable or stationary source? ☐ Portable ☑ Stationary

3. Location Address: 2815 Indianapolis Blvd.

City: Whiting | State: Indiana | ZIP Code: 46394

4. County Name: Lake | 5. Township Name: North

6. Geographic Coordinates:

Latitude: 41:40:13 | Longitude: 87:28:50

7. Universal Transferal Mercadum Coordinates (if known):

Zone: 16 | Horizontal: 460 | Vertical: 4613.1

8. Adjacent States: Is the source located within 50 miles of an adjacent state?

☐ No ☑ Yes – Indicate Adjacent State(s): ☑ Illinois (IL) ☑ Michigan (MI) ☐ Ohio (OH) ☐ Kentucky (KY)

9. Attainment Area Designation: Is the source located within a non-attainment area for any of the criteria air pollutants?

☐ No ☑ Yes – Indicate Non-attainment Pollutant(s): ☐ CO ☐ Pb ☐ NOx ☑ O3 ☐ PM/PM10 ☐ SO2

PART B: SOURCE STATUS

10. Source Name History: Has this source recently been operated under any other name(s)?

☐ No ☑ Yes - Past Source Name: Amoco Oil Company – Whiting Refinery

11. Source Location History: Has the location of this source recently changed?

☑ No ☐ Yes *- Past Location Address:*

City: | State: | ZIP Code:

County Name: | Township Name:

12. Permitting Level: Has a permitting level been established for this source? ☐ No ☑ Yes – Indicate level below:

☐ Registration ☐ SSOA ☐ Permit by Rule ☐ MSOP ☐ FESOP ☑ TVOP ☐ Exemption

13. Existing Approvals: Have any exemptions, registrations, or permits been issued to this source?

☐ No ☑ Yes – List these permits and their corresponding emissions units in Part I, Existing Approvals.

14. Unpermitted Emissions Units: Does this source have any unpermitted emissions units?

☑ No ☐ Yes – List all unpermitted emissions units in Part J, Unpermitted Emissions Units.

15. New Source Review: Is this source proposing to construct or modify any emissions units?

☐ No ☑ Yes – List all proposed new construction in Part K, New or Modified Emissions Units.

16. Risk Management Plan: Has this source submitted a Risk Management Plan?

☐ Not Required ☐ No ☑ Yes, Date submitted: 5 / 3 / 2006 EPA Facility Identifier: 1000 0010 1105

PART C- SOURCE CONTACT INFORMATION

17. Name of Source Contact Person Natalie Grimmer		
18. Title (optional): CXHO Environmental Manager		
19. Mailing Address: 2815 Indianapolis Boulevard, P.O. Box 710		
City: Whiting	State: Indiana	ZIP Code: 46394-0710
20. Internet Address (optional):		
21. Electronic Mail Address (optional): grimmenr@bp.com		
22. Telephone Number ((xxx) xxx-xxxx): (219) 473-5417	23. Facsimile Number: (optional)	

PART D: AUTHORIZED INDIVIDUA RESPONSIBLE OFFICIAL INFORMATION

24. Name of Authorized Individual or Responsible Official: Daniel J. Sajkowski		
25. Title: Whiting Business Unit Leader		
26. Mailing Address: 2815 Indianapolis Boulevard, P.O. Box 710		
City: Whiting	State: Indiana	ZIP Code: 46394-0710
27. Telephone Number ((xxx) xxx-xxxx): (219) 473-3179	28. Facsimile Number (optional):	

PART E: OWNER INFORMATION

29. Name of Owner: BP Products North America, Inc.		
30. Name of Owner Contact Person: Daniel J. Sajkowski		
31. Mailing Address: 2815 Indianapolis Boulevard, P.O. Box 710		
City: Whiting	State: Indiana	ZIP Code: 46394-0710
32. Telephone Number ((xxx) xxx-xxxx): (219) 473-3179	33. Facsimile Number (optional):	
34. Operator: Does the "Owner"company also operate the source to which this application applies?		
☐ No - *Proceed to Part F below.*	☑ Yes - *Enter"SAMEAS OWNER"on line 35 andproceed to Part G below.*	

PART F: OPERATOR INFORMATION

35. Name of Operator: Same as Owner		
36. Name of Operator Contact Person:		
37. Mailing Address:		
City: Whiting	State:	ZIP Code:
38. Telephone Number ((xxx) xxx-xxxx):	39. Facsimile Number (optional):	

PART G: AGENT INFORMATION

40. Name of Agent: Trinity Consultants		
41. Name of Agent Contact Person: David Wall		
42. Mailing Address: 2311 W 22nd Street, Suite 315		
City: Oak Brook	State: Illinois	ZIP Code: 60523
43. Electronic Mail Address (optional): dwall@trinityconsultants.com		
44. Telephone Number ((xxx) xxx-xxxx): 630-574-9400	45. Facsimile Number (optional): 630-574-9401	
46. Request for Follow-up: Does the "Agent" wish to receive a copy of the preliminary findings during the public notice period (if applicable) and a copy of the final determination?	☐ No	☑ Yes

PART H: SOURCE PROCESS DESCRIPTION

	47. Process Description	48. Products	49. SIC Code	50. NAICS Code
a.	Petroleum refining, storage and distribution processes	Petroleum fuel (I.e. gasoline, jet fuels, furnace oils, etc.)	2911	324110
b.		Chemicals, Feedstocks, Propanes		
c.		Paving Asphalt, Roofing Asphalt		
d.				

PART I: EXISTING APPROVALS

	51. Permit ID	52. Emissions Unit ID	53. Expiration Date
a.		Refer to attached list	
b.			
c.			
d.			

PARTJ: UNPERMITTED EMISSIONS UNITS

	54. Emissions Unit ID	55. Type of Emissions Unit	56. Actual Dates		
			Began Construction	Completed Construction	Began Operation
a.		N/A			
b.					
c.					
d.					
e.					

PART K: NEW OR MODIFIED EMISSIONS UNITS

	57. Emissions Unit ID	58 New	59 Mod.	60. Type of Emissions Unit	61. Estimated Dates		
					Began Construction	Completed Construction	Began Operation
a.				Refer to Attachment			
b.							
c.							
d.							
e.							

PART L: LOCAL LIBRARY INFORMATION

62. Date application packet was filed with the local library: Within 10 days of submittal

63. Name of Library: Whiting Public Library

64. Name of Librarian (optional):

65. Mailing Address: 1735 Oliver Street

City: Whiting	State: Indiana	ZIP Code: 46394

66. Internet Address (optional): http://www.whiting.lib.in.us/

67. Electronic Mail Address (optional):

68. Telephone Number: (219) 659-0269	69. Facsimile Number (optional): (219) 659-5833

Attachment to GSD-01 Part I: List of Existing Approvals
BP Products North America, Inc. – Whiting Business Unit

The following is a list of the permits that have been issued to BP Products North America, Inc – Whiting Business Unit for the BP Whiting Refinery since the submittal of the original Title V application in September 1996.

Permit ID	Description
25044	Revocation of MSM 23177 (permit not needed)
24410	SPM – Tank Sludge Cleaning Facility
24068	SPM – Asphalt Relocation Project
6741	Title V Operating Permit
23177	MSM – Tank Cleaning Facility
23691	AA to MSM 089-22706-00453 – BLTF and ITF Oxidizers
23341	MSM – Sour Water Storage Tank
22706	SPM – BLTF and ITF Oxidizers
22548	MSM – Tank 3703
21682	MSM – BLTF and ITF Oxidizers
21879	AA to MSM 089-14239-00003 – Steam to US Steel
21591	MSM – Tank 3900 and Crude Relief Valve Effluent Diversion
19754	SSM - ULSD Project
18588	SPM – Consent Decree-Related Changes
19041	Exemption – #4UF Scrubber and FCU 500 Ammonia Injection
15052	SSM – CRU Conversion
17230	MPM – DDU Debottlenecking
16960	Exemption – FBI Wet ESP
16840	MPM – Incorporates 9931 into SSM 14630
16586	MSM - #3SPS Boiler NO_X Controls
15500	SSM – SCR for FCU 600
15202	SPM – Consent Decree-Related Changes
15525	SSM – Modular Degassing Unit at Sulfur Pits
14630	SSM- CFHU Capacity Changes
14210	SSM – Soil Remediation Units
14450	Exemption – Changes to #12 Pipe Still and VRU 300
13846	SSM – SRU Tail Gas Unit
14239	MSM – Whiting Clean Energy Steam Sharing
11984	MSM – Lubes Unit Shutdown Credits
11960	MSM – Storage Tank 3705 Replacement
9003	Exemption – Natural Gas-fired Hot Oil Heater
8275	Exemption – Storage Tank 3531 Replacement

AA = Administrative Amendment
MSM = Minor Source Modification

SSM = Significant Source Modification
MPM = Minor Permit Modification
SPM = Significant Permit Modification

Attachment to GSD-01 Part K: New or Modified Emission Units BP Products North America, Inc. – Whiting Business Unit					
Emission Unit ID	**New/ Modified**	**Type of Emission Unit**	**Construction Began (Actual Date)**	**Completed Construction (Actual Date)**	**Began Operation (Actual Date)**
800 (#2 Coker Heater H-201)	New	Process Heater	TBD	TBD	TBD
800 (#2 Coker Heater H-202)	New	Process Heater	TBD	TBD	TBD
800 (#2 Coker Heater H-203)	New	Process Heater	TBD	TBD	TBD
801 (3rd Party SMR Heater HU-1)	New	Process Heater	TBD	TBD	TBD
801 (3rd Party SMR Heater HU-2)	New	Process Heater	TBD	TBD	TBD
802 (GOHT Heater F-901A)	New	Process Heater	TBD	TBD	TBD
802 (GOHT Heater F-901B)	New	Process Heater	TBD	TBD	TBD
130 (12PS Heater H-101A)	New	Process Heater	TBD	TBD	TBD
130 (12PS Heater H-101B)	New	Process Heater	TBD	TBD	TBD
803 (Cooling Tower 7)	New	Cooling Tower	TBD	TBD	TBD
803 (Cooling Tower 8)	New	Cooling Tower	TBD	TBD	TBD
801 (HU Cooling Tower)	New	Cooling Tower	TBD	TBD	TBD
130 (12PS Heater H-102)	New	Process Heater	TBD	TBD	TBD
162 (Tank TK-SH-1)	New	Storage Tank	TBD	TBD	TBD
162 (Tank TK-SH-2)	New	Storage Tank	TBD	TBD	TBD
162 (SRU COT1 & COT2)	New	Sulfur Recovery Complex	TBD	TBD	TBD
802 (GOHT Flare)	New	Industrial Flare	TBD	TBD	TBD
800 (South Flare)	New	Industrial Flare	TBD	TBD	TBD
801 (HU Flare)	New	Industrial Flare	TBD	TBD	TBD
800 (Tank TK-6255)	New	Storage Tank	TBD	TBD	TBD
544 (Tank TK-5052)	New	Storage Tank	TBD	TBD	TBD
210 (ISOM Heater H-1)	Modified	Heater	1985	1985	1985
120 (11 PS Heater H-200)	Modified	Heater	1956	1956	1956
240 (FCU 600)	Modified	Catalytic Cracking Regenerator	1946	1946	1946
803 (Cooling Tower 2)	Modified	Cooling Tower	Unknown	Unknown	Unknown
803 (Cooling Tower 3)	Modified	Cooling Tower	Unknown	Unknown	Unknown
803 (Cooling Tower 4)	Modified	Cooling Tower	Unknown	Unknown	Unknown
720 (DHT Heater B-601A)	New	Process Heater	TBD	TBD	TBD
804 (Brine Treatment Off Spec Tank 1 TK-105A)	New	Storage Tank	TBD	TBD	TBD
804 (Brine Treatment Off Spec Tank 2 TK-105B)	New	Storage Tank	TBD	TBD	TBD
804 (Brine Treatment Separation Tank 1 TK-101)	New	Storage Tank	TBD	TBD	TBD
804 (Brine Treatment Separation Tank 2 TK-102)	New	Storage Tank	TBD	TBD	TBD
804 (Brine Treatment Separation Tank 3 TK-103)	New	Storage Tank	TBD	TBD	TBD
804 (Brine Treatment Sludge Holding Tank 1 TK-104A)	New	Storage Tank	TBD	TBD	TBD
804 (Brine Treatment Sludge Holding Tank 2 TK-104B)	New	Storage Tank	TBD	TBD	TBD

Marine Dock Gasoline Loading	Modified	Barge Loading	Unknown	Unknown	Unknown
800 (Coke Storage and Handling)	New/Modified	Coke Storage and Handling	TBD	TBD	TBD
250 (BOU Heater F-401)	Modified	Process Heater	Unknown	Unknown	Unknown

GSD-02 GENERAL SOURCE DATA-PLANT LAYOUT DIAGRAM

tate Form 51605 (R / 10-04)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch
100 N. Senate Avenue
Indianapolis, IN 46204
Telephone: (317) 233-0178 or
Toll Free: 1-800-451-6027 x30178 (within Indiana)
Facsimile Number: (317) 232-6749
Http://www.IN.gov/idem/air/permits/index.html

NOTES: . The purpose of GSD-02 is to provide a diagram of the entire plant site. This form and a Plant Layout diagram are required for all air permit applications. If you do not provide the necessary information, applicable to your source, the application process may be stopped.

- IDEM, OAQ has provided detailed instructions for this form hftp://www.in.gov/idem/air/permits/apps/instructions/gsdO2instructions.pdf and an example of a basic plant layout diagram hftp://www.in.gov/idem/air/permits/apps/instructions/pidexample.pdf on the Air Permit Applications Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

FOR OFFICE USE ONLY

PERMIT NUMBER:

Part A: Basic Plant Layout

Part A is intended to provide I DEM, OAQ with the appropriate information about all buildings and access-limiting features in and around the plant site. **Please use this table as a checklist.** You must provide scaled drawings, with the actual scale shown. All dimensions and units must be clearly indicated with a brief explanation of what is being shown. Include the following (All *measurements should be given in feet.):*

1.	Building Location and Dimensions Please refer to Appendix A		
2.	Property Lines and Access-Limiting Features Please refer to Appendix A		
3.	Surrounding Building Location and Dimensions Please refer to Appendix A		
4.	Distance to Property Lines and Access-Limiting Features Please refer to Appendix A		
5.	UTM Location Coordinates Please refer to Appendix A	6. Compass (pointing North) Please refer to Appendix A	7. Scale Please refer to Appendix A

Part B: Stack Information

Part B is intended to provide IDEM, OAQ with the appropriate information about all stacks, roof monitors, control devices, and process vents at the plant site. **Please use this table as a checklist.** You must show the location of all applicable emission points and include all relevant stack and emissions unit identification numbers for each. In addition, you will need to identify each of these emission points under "Stack Identification" on form GSD-04, Stack/Vent Information. Include the following (All *measurements should be in feet.):*

8.	Exhaust Stacks Please refer to Appendix A
9.	Process Vents Please refer to Appendix A
10.	Roof Monitors No Roof Monitors Please refer to Appendix A
11.	Control Devices No Control Devices Please refer to Appendix A
12.	Interior Vents Please refer to Appendix A No Interior Vents Doors and Windows (venting inside a building)

Part C: Roadway Information

Part C is intended to provide IDEM, OAQ with the appropriate information about the roadways in and around the plant site. **Please use this table as a checklist.** Include the following (All *measurements should be in feet):*

13.	Adjacent Roadways Interior Roadways Please refer to Appendix A
14.	Roadway Surface Description (gravel, dirt, paved, etc.) Please refer to Appendix A
15.	Number of Lanes Please refer to Appendix A

Part D: Source Building Information

This table is intended to provide detailed information about each building at the plant site that is part of the source. If additional space is needed, you may make a copy of this table. (All *measurements should be given in feet)*

16. Building ID	17. Building Description	18. Building Dimensions			19. Distance & direction to the nearest property line or access limiting feature (feet & compass coordinate)	20. Distance & direction to the nearest residence (feet & compass coordinate)
		Length (feet)	Width (feet)	Height (feet)		
Please refer to Appendix A						

Part E: Surrounding Building / Residence Information

This table is intended to provide detailed information about each building or residence surrounding the plant site. If additional space is needed, you may make a copy of this table. (All *measurements should be given in feet)*

21. Surrounding Building / Residence Description	22. **Surrounding Building / Residence Property Dimensions**			23. **Distance & direction to the nearest property line or access limiting feature** (feet & compass coordinate)	**24. Building ID of nearest building on the plant site**	**25. Distance & direction to the nearest building on the plant site** (feet & compass coordinate)
	Length (feet)	**Width (feet)**	**Height (feet)**			
Please refer to Appendix A						

Part F: Plant Layout Diagram

This space is intended to provide a place for a hand drawn plant layout diagram. It is optional to use this space to create your plant layout, but you must include the diagram with your application. If you choose to submit the plant layout in a different format, state “plant layout attached” in the space provided, and submit the information with your completed application. IDEM, OAQ has provided an example of a basic plant layout diagram on the Air Permit Applications Forms website http://www.in.gov/idem/air/permits/apps/instructions/pldexample.pdf.

Please refer to Appendix A for a preliminary plant layout diagram. A more detailed diagram will be provided upon finalization of layout specifications.

GSD-03 GENERAL SOURCE DATA— PROCESS FLOW DIAGRAM

State Form 51599 (R / 10-04)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch
1 00 N. Senate Avenue
Indianapolis, IN 46204
Telephone: (317) 233-0178 or
Toll Free: 1-800-451-6027 x30178 (within Indiana)
Facsimile Number: (317) 232-6749
Http://www.IN.gov/idem/air/permits/index.html

NOTES:

- The purpose of GSD-03 is to provide a checklist for identifying the information to be included on each Process Flow diagram.
- Complete this form and submit a process flow diagram for each process included in your air permit application.
- IDEM, OAQ has provided detailed instructions for this form http://www.in.gov/idem/air/permits/apps/instructions/qsdO3instructions.pdf and an example of a basic process flow diagram http://www.in.gov/idem/air/permits/apps/instructions/pdfexample.pdf on the Air Permit Applications Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

FOR OFFICE USE ONLY
PERMIT NUMBER:

Part A: Process Flow Diagram

Part A is intended to provide sufficient information to understanding the process.

1. Process Description:	Coke Storage and Handling
2. ☑ Process Equipment	3. ☑ Raw Material Input
4. ☑ Process Throughput	5. ☐ Additions ☐ Deletions ☑ Modifications

Use the space below to briefly explain the impacts of the additional equipment, the reason for removing any equipment, and/or the reason for the proposed modification. (If additional space is needed, please attach a separate sheet with the information and indicate in the space below that additional information is attached.)

Enclosed conveyor system and coke storage barn to reduce particulate matter emissions
Equipment: Conveyor system and barn
Raw Material Input: Coke
Process Throughput 2,190,000 tpy coke handled

Part B: Process Operation Schedule

Part B is intended to indicate the actual (or estimated actual) hours of operation for the process.

6. ☑ Process Operation Schedule 24 Hours per Day 7 Days per Week 52 Weeks Per Year

7. **Scheduled Downtime:** Use the space below to include as much information as is known about scheduled periods of downtime for this process. (If additional space is needed, please attach a separate sheet with the information and indicate in the space below that additional information is attached.)

Unknown

Part C: Emissions Point Information

Part C is intended to provide information about each potential outlet of air pollutant emissions to the atmosphere. Please use this table as a checklist to indicate that you have included the following items on your process flow diagram (All *throughputs should be given in pounds per hour.)-*

7. ☐	Stack / Vent Information
8. ☐	Pollutants Emitted
9. ☐	Air Pollution Control Equipment N/A

Part D: Process Flow Diagram

This space is intended to provide a place for a hand drawn process flow diagram. It is optional to use this space to create your process flow diagram, but you must include the diagram with your application. If you choose to submit the process flow diagram in a different format, state “process flow diagram attached” in the space provided, and submit the information with your completed application. IDEM, OAQ has provided an example of a basic process flow diagram http://www.in.gov/idem/air/permits/apps/instructions/pfdexample.pdf on the Air Permit Applications Forms website.

Please refer to Appendix A of the Application for the Process Flow Diagram.

GSD-03 GENERAL SOURCE DATA— PROCESS FLOW DIAGRAM

State Form 51599 (R / 10-04)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch
1 00 N. Senate Avenue
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NOTES:

- The purpose of GSD-03 is to provide a checklist for identifying the information to be included on each Process Flow diagram.
- Complete this form and submit a process flow diagram for each process included in your air permit application.
- IDEM, OAQ has provided detailed instructions for this form http://www.in.gov/idem/air/permits/apps/instructions/qsdO3instructions.pdf and an example of a basic process flow diagram http://www.in.gov/idem/air/permits/apps/instructions/pdfexample.pdf on the Air Permit Applications Forms website.
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PERMIT NUMBER:

Part A: Process Flow Diagram

Part A is intended to provide sufficient information to understanding the process.

1. Process Description:	Distillate Hydrotreating Unit B-601A
2. ☑ Process Equipment	3. ☑ Raw Material Input
4. ☑ Process Throughput	5. ☐ Additions ☐ Deletions ☑ Modifications

Use the space below to briefly explain the impacts of the additional equipment, the reason for removing any equipment, and/or the reason for the proposed modification. (If additional space is needed, please attach a separate sheet with the information and indicate in the space below that additional information is attached.)

New heater to replace existing DHT Heater
Equipment: DHT Heater B-601A
Raw Material Input: Natural Gas
Process Throughput: B-601A: 41.9 MMBtu/hr

Part B: Process Operation Schedule

Part B is intended to indicate the actual (or estimated actual) hours of operation for the process.

6. ☑ Process Operation Schedule 24 Hours per Day 7 Days per Week 52 Weeks Per Year

7. **Scheduled Downtime:** Use the space below to include as much information as is known about scheduled periods of downtime for this process. (If additional space is needed, please attach a separate sheet with the information and indicate in the space below that additional information is attached.)

Unknown

Part C: Emissions Point Information

Part C is intended to provide information about each potential outlet of air pollutant emissions to the atmosphere. Please use this table as a checklist to indicate that you have included the following items on your process flow diagram (All *throughputs should be given in pounds per hour.)-*

7. ☐	Stack / Vent Information
8. ☐	Pollutants Emitted
9. ☐	Air Pollution Control Equipment N/A

Part D: Process Flow Diagram

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Please refer to Appendix A of the Application for the Process Flow Diagram.

GSD-03 GENERAL SOURCE DATA— PROCESS FLOW DIAGRAM

State Form 51599 (R / 10-04)

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PERMIT NUMBER:

Part A: Process Flow Diagram

Part A is intended to provide sufficient information to understanding the process.

1. Process Description:	Gas Oil Hydrotreating Unit Heater F-901A and F-901B
2. ☑ Process Equipment	3. ☑ Raw Material Input
4. ☑ Process Throughput	5. ☑ Additions ☐ Deletions ☐ Modifications

Use the space below to briefly explain the impacts of the additional equipment, the reason for removing any equipment, and/or the reason for the proposed modification. (If additional space is needed, please attach a separate sheet with the information and indicate in the space below that additional information is attached.)

New heater for hydrotreating process
Equipment: GOHT Heaters F-901A and F-901B
Raw Material Input: Natural Gas or Refinery Fuel Gas
Process Throughput F-901A: 47 MMBtu/hr F-901B: 47 MMBtu/hr

Part B: Process Operation Schedule

Part B is intended to indicate the actual (or estimated actual) hours of operation for the process.

6. ☑ Process Operation Schedule 24 Hours per Day 7 Days per Week 52 Weeks Per Year

7. **Scheduled Downtime:** Use the space below to include as much information as is known about scheduled periods of downtime for this process. (If additional space is needed, please attach a separate sheet with the information and indicate in the space below that additional information is attached.)

Unknown

Part C: Emissions Point Information

Part C is intended to provide information about each potential outlet of air pollutant emissions to the atmosphere. Please use this table as a checklist to indicate that you have included the following items on your process flow diagram (All *throughputs should be given in pounds per hour.)-*

7. ☐	Stack / Vent Information
8. ☐	Pollutants Emitted
9. ☐	Air Pollution Control Equipment N/A

Part D: Process Flow Diagram

This space is intended to provide a place for a hand drawn process flow diagram. It is optional to use this space to create your process flow diagram, but you must include the diagram with your application. If you choose to submit the process flow diagram in a different format, state “process flow diagram attached” in the space provided, and submit the information with your completed application. IDEM, OAQ has provided an example of a basic process flow diagram http://www.in.gov/idem/air/permits/apps/instructions/pfdexample.pdf on the Air Permit Applications Forms website.

Please refer to Appendix A of the Application for the Process Flow Diagram.

GSD-03 GENERAL SOURCE DATA— PROCESS FLOW DIAGRAM

State Form 51599 (R / 10-04)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch
1 00 N. Senate Avenue
Indianapolis, IN 46204
Telephone: (317) 233-0178 or
Toll Free: 1-800-451-6027 x30178 (within Indiana)
Facsimile Number: (317) 232-6749
Http://www.IN.gov/idem/air/permits/index.html

NOTES:

- The purpose of GSD-03 is to provide a checklist for identifying the information to be included on each Process Flow diagram.
- Complete this form and submit a process flow diagram for each process included in your air permit application.
- IDEM, OAQ has provided detailed instructions for this form http://www.in.gov/idem/air/permits/apps/instructions/qsdO3instructions.pdf and an example of a basic process flow diagram http://www.in.gov/idem/air/permits/apps/instructions/pdfexample.pdf on the Air Permit Applications Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

FOR OFFICE USE ONLY

PERMIT NUMBER:

Part A: Process Flow Diagram

Part A is intended to provide sufficient information to understanding the process.

1. Process Description:	#2 Coker Heaters H-201, H-202, H-203
2. ☑ Process Equipment	3. ☑ Raw Material Input
4. ☑ Process Throughput	5. ☑ Additions ☑ Deletions ☐ Modifications

Use the space below to briefly explain the impacts of the additional equipment, the reason for removing any equipment, and/or the reason for the proposed modification. (If additional space is needed, please attach a separate sheet with the information and indicate in the space below that additional information is attached.)

New heaters to support new coker, shutdown of existing coker
Equipment: New Coker Heaters H-201, H-202, and H-203
Raw Material Input: Natural Gas or Refinery Fuel Gas
Process Throughput H-201: 208 MMBtu/hr H-202: 208 MMBtu/hr H-203: 208 MMBtu/hr

Part B: Process Operation Schedule

Part B is intended to indicate the actual (or estimated actual) hours of operation for the process.

6. ☑ Process Operation Schedule 24 Hours per Day 7 Days per Week 52 Weeks Per Year

7. **Scheduled Downtime:** Use the space below to include as much information as is known about scheduled periods of downtime for this process. (If additional space is needed, please attach a separate sheet with the information and indicate in the space below that additional information is attached.)

Unknown

Part C: Emissions Point Information

Part C is intended to provide information about each potential outlet of air pollutant emissions to the atmosphere. Please use this table as a checklist to indicate that you have included the following items on your process flow diagram (All *throughputs should be given in pounds per hour.)-*

7. ☐ Stack / Vent Information

8. ☐ Pollutants Emitted

9. ☑ Air Pollution Control Equipment

Part D: Process Flow Diagram

This space is intended to provide a place for a hand drawn process flow diagram. It is optional to use this space to create your process flow diagram, but you must include the diagram with your application. If you choose to submit the process flow diagram in a different format, state “process flow diagram attached” in the space provided, and submit the information with your completed application. IDEM, OAQ has provided an example of a basic process flow diagram http://www.in.gov/idem/air/permits/apps/instructions/pfdexample.pdf on the Air Permit Applications Forms website.

Please refer to Appendix A of the Application for the Process Flow Diagram.

GSD-03 GENERAL SOURCE DATA— PROCESS FLOW DIAGRAM

State Form 51599 (R / 10-04)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch
1 00 N. Senate Avenue
Indianapolis, IN 46204
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Http://www.IN.gov/idem/air/permits/index.html

NOTES:

- The purpose of GSD-03 is to provide a checklist for identifying the information to be included on each Process Flow diagram.
- Complete this form and submit a process flow diagram for each process included in your air permit application.
- IDEM, OAQ has provided detailed instructions for this form http://www.in.gov/idem/air/permits/apps/instructions/qsdO3instructions.pdf and an example of a basic process flow diagram http://www.in.gov/idem/air/permits/apps/instructions/pdfexample.pdf on the Air Permit Applications Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

FOR OFFICE USE ONLY

PERMIT NUMBER:

Part A: Process Flow Diagram

Part A is intended to provide sufficient information to understanding the process.

1. Process Description:	New Hydrogen Plant (3rd Party SMR) Heaters HU-1 and HU-2, HU Cooling Tower, and HU Flare
2. ☑ Process Equipment	3. ☑ Raw Material Input
4. ☑ Process Throughput	5. ☑ Additions ☐ Deletions ☐ Modifications

Use the space below to briefly explain the impacts of the additional equipment, the reason for removing any equipment, and/or the reason for the proposed modification. (If additional space is needed, please attach a separate sheet with the information and indicate in the space below that additional information is attached.)

New heaters, cooling tower, and flare to support increased hydrogen production
Equipment: New Hydrogen Plant Heaters HU-1 and HU-2, HU Cooling Tower, and HU Flare
Heater Raw Material Input: Natural Gas or PSA Gas
Process Throughput: Heater HU-1: 230 MMBtu/hr of Natural Gas and 690 MMBtu/hr of PSA Gas
Heater HU-2: 230 MMBtu/hr of Natural Gas and 690 MMBtu/hr of PSA Gas
HU Cooling Tower: 14,000 gpm, HU Flare: 255 scfh

Part B: Process Operation Schedule

Part B is intended to indicate the actual (or estimated actual) hours of operation for the process.

6. ☑ Process Operation Schedule 24 Hours per Day 7 Days per Week 52 Weeks Per Year

7. **Scheduled Downtime:** Use the space below to include as much information as is known about scheduled periods of downtime for this process. (If additional space is needed, please attach a separate sheet with the information and indicate in the space below that additional information is attached.)

Unknown

Part C: Emissions Point Information

Part C is intended to provide information about each potential outlet of air pollutant emissions to the atmosphere. Please use this table as a checklist to indicate that you have included the following items on your process flow diagram (All *throughputs should be given in pounds per hour.)-*

7. ☐ Stack / Vent Information
8. ☐ Pollutants Emitted
9. ☑ Air Pollution Control Equipment

Part D: Process Flow Diagram

This space is intended to provide a place for a hand drawn process flow diagram. It is optional to use this space to create your process flow diagram, but you must include the diagram with your application. If you choose to submit the process flow diagram in a different format, state “process flow diagram attached” in the space provided, and submit the information with your completed application. IDEM, OAQ has provided an example of a basic process flow diagram http://www.in.gov/idem/air/permits/apps/instructions/pfdexample.pdf on the Air Permit Applications Forms website.

Please refer to Appendix A of the Application for the Process Flow Diagram.

GSD-03 GENERAL SOURCE DATA— PROCESS FLOW DIAGRAM

State Form 51599 (R / 10-04)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch
1 00 N. Senate Avenue
Indianapolis, IN 46204
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Facsimile Number: (317) 232-6749
Http://www.IN.gov/idem/air/permits/index.html

NOTES:

- The purpose of GSD-03 is to provide a checklist for identifying the information to be included on each Process Flow diagram.
- Complete this form and submit a process flow diagram for each process included in your air permit application.
- IDEM, OAQ has provided detailed instructions for this form http://www.in.gov/idem/air/permits/apps/instructions/qsdO3instructions.pdf and an example of a basic process flow diagram http://www.in.gov/idem/air/permits/apps/instructions/pdfexample.pdf on the Air Permit Applications Forms website.
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FOR OFFICE USE ONLY
PERMIT NUMBER:

Part A: Process Flow Diagram

Part A is intended to provide sufficient information to understanding the process.

1. Process Description:	No. 12 Pipe Still Heaters H-101A, H-101B, and H-102
2. ☑ Process Equipment	3. ☑ Raw Material Input
4. ☑ Process Throughput	5. ☑ Additions ☑ Deletions ☐ Modifications

Use the space below to briefly explain the impacts of the additional equipment, the reason for removing any equipment, and/or the reason for the proposed modification. (If additional space is needed, please attach a separate sheet with the information and indicate in the space below that additional information is attached.)

New heaters and shutdown of existing heaters for increased capacity and reduction of emissions
Equipment: New 12 PS Heaters H-101A, H101B, and H-102
Raw Material Input: Natural Gas or Refinery Fuel Gas
Process Throughput: 12 PS H-101A: 355 MMBtu/hr 12 PS H-101B: 355 MMBtu/hr 12 PS H-102: 331 MMBtu/hr

Part B: Process Operation Schedule

Part B is intended to indicate the actual (or estimated actual) hours of operation for the process.

6. ☑ Process Operation Schedule 24 Hours per Day 7 Days per Week 52 Weeks Per Year

7. **Scheduled Downtime:** Use the space below to include as much information as is known about scheduled periods of downtime for this process. (If additional space is needed, please attach a separate sheet with the information and indicate in the space below that additional information is attached.)

Unknown

Part C: Emissions Point Information

Part C is intended to provide information about each potential outlet of air pollutant emissions to the atmosphere. Please use this table as a checklist to indicate that you have included the following items on your process flow diagram (All *throughputs should be given in pounds per hour.)-*

7. ☐	Stack / Vent Information	
8. ☐	Pollutants Emitted	
9. ☐	Air Pollution Control Equipment	N/A

Part D: Process Flow Diagram

This space is intended to provide a place for a hand drawn process flow diagram. It is optional to use this space to create your process flow diagram, but you must include the diagram with your application. If you choose to submit the process flow diagram in a different format, state “process flow diagram attached” in the space provided, and submit the information with your completed application. IDEM, OAQ has provided an example of a basic process flow diagram http://www.in.gov/idem/air/permits/apps/instructions/pfdexample.pdf on the Air Permit Applications Forms website.

Please refer to Appendix A of the Application for the Process Flow Diagram.

GSD-03 GENERAL SOURCE DATA— PROCESS FLOW DIAGRAM

State Form 51599 (R / 10-04)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch
1 00 N. Senate Avenue
Indianapolis, IN 46204
Telephone: (317) 233-0178 or
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Facsimile Number: (317) 232-6749
Http://www.IN.gov/idem/air/permits/index.html

NOTES:

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- IDEM, OAQ has provided detailed instructions for this form http://www.in.gov/idem/air/permits/apps/instructions/qsdO3instructions.pdf and an example of a basic process flow diagram http://www.in.gov/idem/air/i)ermits/apps/instructions/pdfexample.pdf on the Air Permit Applications Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

FOR OFFICE USE ONLY
PERMIT NUMBER:

Part A: Process Flow Diagram

Part A is intended to provide sufficient information to understanding the process.

1. Process Description:	Sulfur Recovery Complex
2. ☑ Process Equipment	3. ☑ Raw Material Input
4. ☑ Process Throughput	5. ☑ Additions ☑ Deletions ☑ Modifications

Use the space below to briefly explain the impacts of the additional equipment, the reason for removing any equipment, and/or the reason for the proposed modification. (If additional space is needed, please attach a separate sheet with the information and indicate in the space below that additional information is attached.)

New SRU Claus trains and new Claus Offgas Treatment Tail Gas Units for increased sulfur recovery, modification of one existing Claus Train, and shutdown of two existing Claus Trains, SBS, and B/S TGU.
Equipment: SRU Claus Trains, COT-1, COT-2
Raw Material Input: Process gas, Natural Gas Process Throughput 1300 LTPD

Part B: Process Operation Schedule

Part B is intended to indicate the actual (or estimated actual) hours of operation for the process.

6. ☑ Process Operation Schedule _____ Hours per Day _____ Days per Week _____ Weeks Per Year

7. **Scheduled Downtime:** Use the space below to include as much information as is known about scheduled periods of downtime for this process. (If additional space is needed, please attach a separate sheet with the information and indicate in the space below that additional information is attached.)

Part C: Emissions Point Information

Part C is intended to provide information about each potential outlet of air pollutant emissions to the atmosphere. Please use this table as a checklist to indicate that you have included the following items on your process flow diagram (All *throughputs should be given in pounds per hour.)-*

7. ☐	Stack / Vent Information
8. ☐	Pollutants Emitted
9. ☐	Air Pollution Control Equipment

Part D: Process Flow Diagram

This space is intended to provide a place for a hand drawn process flow diagram. It is optional to use this space to create your process flow diagram, but you must include the diagram with your application. If you choose to submit the process flow diagram in a different format, state “process flow diagram attached” in the space provided, and submit the information with your completed application. IDEM, OAQ has provided an example of a basic process flow diagram http://www.in.gov/idem/air/permits/apps/instructions/pfdexample.pdf on the Air Permit Applications Forms website.

Please refer to Appendix A of the Application for the Process Flow Diagram.

GSD-04 GENERAL SOURCE DATA— STACK/ VENT INFORMATION

State Form 51606 (R / 9-04)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch
100 N. Senate Avenue
P.O. Box 6015
Indianapolis, IN 46206-6015
Telephone: (317) 233-0178 or
Toll Free: 1-800-451-6027 x30178 (within Indiana)
Facsimile Number: (317) 232-6749
Http://www.IN.gov/idem/air/permits/index.html

NOTES: This form is required for all air permit applications.

The purpose of this form is to provide basic information about each stack or vent that has the potential to emit air pollutants. If you do not provide enough information to adequately describe each process vent and/or stack, the application process may be stopped.

Detailed instructions for this form are available online at http://www.IN.gov/idem/air/permits/apps/instructions/gsdO4instructions.pdf

All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly, will result in your information becoming a public record, available for public inspection.

FOR OFFICE USE ONLY

PERMIT NUMBER:

Stack / Vent Information

This table is intended to provide detailed information about each stack or vent through which air pollutants could be released into the atmosphere. If an air stream is vented inside a building, the vent does not need to be listed on this form. If additional space is needed, you may make a copy of this form.

1. Stack / Vent ID	2. Type (V H W 0)	3. Shape (C R 0)	4. Outlet Dimensions (feet)	5. Height (feet)	6. Maximum Outlet Flow Rate (acfm)	7. Outlet Gas Temperature (Degrees F)	8. Related Stacks/ Vents (B P 0)
800-01	TBD	TBD	TBD	TBD	TBD	TBD	TBD
800-02	TBD	TBD	TBD	TBD	TBD	TBD	TBD
800-03	TBD	TBD	TBD	TBD	TBD	TBD	TBD
801-01	TBD	TBD	TBD	TBD	TBD	TBD	TBD
801-02	TBD	TBD	TBD	TBD	TBD	TBD	TBD
802-01	TBD	TBD	TBD	TBD	TBD	TBD	TBD
802-02	TBD	TBD	TBD	TBD	TBD	TBD	TBD
130-05	TBD	TBD	TBD	TBD	TBD	TBD	TBD
130-06	TBD	TBD	TBD	TBD	TBD	TBD	TBD
130-07	TBD	TBD	TBD	TBD	TBD	TBD	TBD
162-06, 162-07	TBD	TBD	TBD	TBD	TBD	TBD	TBD
802-03	TBD	TBD	TBD	TBD	TBD	TBD	TBD
800-04	TBD	TBD	TBD	TBD	TBD	TBD	TBD

1. Stack / Vent ID	2. Type (V H W 0)	3. Shape (C R 0)	4. Outlet Dimensions (feet)	5. Height (feet)	6. Maximum Outlet Flow Rate (acfm)	7. Outlet Gas Temperature (Degrees F)	8. Related Stacks/ Vents (B P 0)
801-03	TBD	TBD	TBD	TBD	TBD	TBD	TBD
800-05	TBD	TBD	TBD	TBD	TBD	TBD	TBD
554-22	TBD	TBD	TBD	TBD	TBD	TBD	TBD
803-07	TBD	TBD	TBD	TBD	TBD	TBD	TBD
803-08	TBD	TBD	TBD	TBD	TBD	TBD	TBD
801-04	TBD	TBD	TBD	TBD	TBD	TBD	TBD
210-01	N/A	N/A	N/A	N/A	N/A	N/A	N/A
240-01	N/A	N/A	N/A	N/A	N/A	N/A	N/A
720-01	TBD	TBD	TBD	TBD	TBD	TBD	TBD
162-09	TBD	TBD	TBD	TBD	TBD	TBD	TBD
162-10	TBD	TBD	TBD	TBD	TBD	TBD	TBD
120-05	TBD	TBD	TBD	TBD	TBD	TBD	TBD
250-01	N/A	N/A	N/A	N/A	N/A	N/A	N/A
803-02	N/A	N/A	N/A	N/A	N/A	N/A	N/A
803-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A
803-04	N/A	N/A	N/A	N/A	N/A	N/A	N/A
804-01	TBD	TBD	TBD	TBD	TBD	TBD	TBD
804-02	TBD	TBD	TBD	TBD	TBD	TBD	TBD
804-03	TBD	TBD	TBD	TBD	TBD	TBD	TBD

1. Stack / Vent ID	2. Type (V H W 0)	3. Shape (C R 0)	4. Outlet Dimensions (feet)	5. Height (feet)	6. Maximum Outlet Flow Rate (acfm)	7. Outlet Gas Temperature (Degrees F)	8. Related Stacks/ Vents (B P 0)
804-04	TBD	TBD	TBD	TBD	TBD	TBD	TBD
804-05	TBD	TBD	TBD	TBD	TBD	TBD	TBD
804-06	TBD	TBD	TBD	TBD	TBD	TBD	TBD
804-07	TBD	TBD	TBD	TBD	TBD	TBD	TBD

*TBD – To be determined. BP will supplement this application with new unit stack data as soon as this data is finalized by the CXHO Project design team.
**N/A – Not Available

GSD-05 GENERAL SOURCE DATA—
EMISSIONS UNIT INFORMATION

State Form 5161 0 (R / 9-04)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch
100 N. Senate Avenue
Indianapolis, IN 46204

Telephone: (317) 233-0178 or
Toll Free: 1-800-451-6027 x30178 (within Indiana)
Facsimile Number: (317) 232-6749
http://www.IN.gov/idem/air/permits/index.html

FOR OFFICE USE ONLY

PERMIT NUMBER:

NOTES:

- This form is required for all air permit applications.
- The purpose of this form is to provide basic information about each emissions unit that has the potential to emit air pollutants.
- Detailed instructions for this form are available online at http://www.IN.gov/idem/air/permits/apps/instructions/gsdO5instructions.pdf
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly, will result in your information becoming a public record, available for public inspection.

Emissions Unit Information

This table is intended to provide detailed information about each emissions unit that has the potential to emit air pollutants to the atmosphere. Accurate information is needed to determine the total potential to emit. If you do not provide the enough information to adequately describe each emissions unit, the application process may be stopped. If additional space is needed, you may make a copy of this form.

1. Unit ID	2. Model No.	3. Serial No.	4. Description	5. Manufacturer	6. Installation Date	7. Maximum Capacity	8. Stack / Vent ID
800	TBD	H-201	#2 Coker Heater H-201	TBD	TBD	208 MMBtu/hr	800-01
800	TBD	H-202	#2 Coker Heater H-202	TBD	TBD	208 MMBtu/hr	800-02
800	TBD	H-203	#2 Coker Heater H-203	TBD	TBD	208 MMBtu/hr	800-03
801	TBD	HU-1	Hydrogen Plant Heater HU-1	TBD	TBD	920 MMBtu/hr	801-01
801	TBD	HU-2	Hydrogen Plant Heater HU-2	TBD	TBD	920 MMBtu/hr	801-02
802	TBD	GOHT F-901A	GOHT Heater F-901A	TBD	TBD	47 MMBtu/hr	802-01
802	TBD	GOHT F-901B	GOHT Heater F-901B	TBD	TBD	47 MMBtu/hr	802-02
130	TBD	12PS H-101A	12 PS Heater H-101A	TBD	TBD	355 MMBtu/hr	130-05
130	TBD	12PS H-101B	12 PS Heater H-101B	TBD	TBD	355 MMBtu/hr	130-07
130	TBD	12PS H-102	12 PS Heater H-102	TBD	TBD	331 MMBtu/hr	130-06
162	TBD	SRU (COT-1, COT-2)	Sulfur Recovery Complex	TBD	TBD	1300 LTPD	162-06, 162-07
802	TBD	GOHT Flare	GOHT Flare	TBD	TBD	28.4 MMscf/yr	802-03
800	TBD	South Flare	South Flare	TBD	TBD	32.6 MMscf/yr	800-04

801	TBD	HU Flare	HU Flare	TBD	TBD	2.23 MMscf/yr	801-03
800	TBD	TK-6255	Coker Feed Tank TK-6255	TBD	TBD	14,028,000 gal	800-05
544	TBD	TK-5052	WW Storage Tank TK-5052	TBD	TBD	11,676,000 gal	544-22
803	TBD	Cooling Tower 7	Cooling Tower 7	TBD	TBD	21,000 GPM	803-07
803	TBD	Cooling Tower 8	Cooling Tower 8	TBD	TBD	90,000 GPM	803-08
801	TBD	HU Cooling Tower	HU Cooling Tower	TBD	TBD	14,000 GPM	801-04
162	TBD	TK -SH-1	SRU Storage Tank TK-SH-1	TBD	TBD	1,008,000 gal	162-09
162	TBD	TK -SH-2	SRU Storage Tank TK-SH-2	TBD	TBD	1,008,000 gal	162-10
210	unknown	ISOM H-1	Isomerization Unit Heater H-1	unknown	1957	153.2MMBtu/hr	210-01
120	unknown	11 PS H-200	No. 11 Pipe Still Heater H-200	unknown	1956	182.8 MMBtu/hr	120-05
240	unknown	FCU 600	Fluid Catalytic Cracking Unit 600	unknown	1946	66,000 kbd	240-01
720	TBD	DHT B-601A	Distillate Hydrotreating Unit Heater B-601A	TBD	TBD	41.9 MMBtu/hr	720-01
250	unknown	BOU F-401	Blending Oil Unit Heater F-401	unknown	1972	23 MMBtu/hr	250-01
803	unknown	Cooling Tower 2	Cooling Tower 2	unknown	unknown	50,000 GPM	803-02
803	unknown	Cooling Tower 3	Cooling Tower 3	unknown	unknown	90,000 GPM	803-03
803	unknown	Cooling Tower 4	Cooling Tower 4	unknown	unknown	44,000 GPM	803-04
N/A	unknown	Marine Dock Loading	Marine Dock Gasoline Loading	unknown	unknown	4,000,000 BBls/yr	N/A
800	TBD	Coke Storage and Handling	Coke Storage and Handling	TBD	TBD	2,190,000 tpy coke	N/A
804	TBD	TK-105A	Brine Treatment Off Spec Tank TK-105A	TBD	TBD	867,090 gal	804-01
804	TBD	TK-105B	Brine Treatment Off Spec Tank TK-105B	TBD	TBD	867,090 gal	804-02
804	TBD	TK-101	Brine Treatment Separation Tank TK-101	TBD	TBD	66,108 gal	804-03
804	TBD	TK-102	Brine Treatment Separation Tank TK-102	TBD	TBD	66,108 gal	804-04
804	TBD	TK-103	Brine Treatment Separation Tank TK-103	TBD	TBD	66,108 gal	804-05

804	TBD	TK-104A	Brine Treatment Separation Tank TK-104A	TBD	TBD	89,922 gal	804-06
804	TBD	TK-104B	Brine Treatment Separation Tank TK-104B	TBD	TBD	89,922 gal	804-07

GSD-06 GENERAL SOURCE DATA— PARTICULATE EMISSIONS

State Form 51612 (R / 10-04)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch
100 N. Senate Avenue
Indianapolis, IN 46204
Telephone: (317) 233-0178 or
Toll Free: 1-800-451-6027 x30178 (within Indiana)
Facsimile Number: (317) 232-6749
Http://www.IN.gov/idem/air/permits/index.html

NOTES:

- This form is required for all air permit applications.
- The purpose of this form is to provide basic information about each source of particulate
- Detailed instructions for this form are available online at http://www.IN.gov/idem/air/permits/apps/instructions/gsdO6instructions.pdf
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly, will result in your information becoming a public record, available for public inspection.

FOR OFFICE USE ONLY

PERMIT NUMBER:

___ _____ - _____ - _____

Part A: Particulate Matter Emissions

Part A is intended to provide a summary of the type and amount of particulate emissions at the source. The state rules on particulate emissions are found in Title 326 of the Indiana Administrative Code, Article 6, Particulate Rules. If you do not provide the enough information to adequately describe each source of particulate emissions, the application process may be stopped. If additional space is needed, you may make a copy of this table.

Emissions Point	**Potential To Emit** (tons per year)

1. ID	**2. Description**	**3. PM**	4. **PM-10**	**5. PM-2.5**	**6. TSP**	**7. Fugitive Dust**	**8. Fugitive PM**	9. **HAP PM**
800	H-201; #2 Heater H-201	2.3	7.4	7.4	7.4	N/A	N/A	N/A
800	H-202; #2 Heater H-202	2.3	7.4	7.4	7.4	N/A	N/A	N/A
800	H-203; #2 Heater H-203	2.3	7.4	7.4	7.4	N/A	N/A	N/A
801	HU-1; Hydrogen Plant Heater HU-1	27.4	27.4	27.4	27.4	N/A	N/A	N/A
801	HU-2; Hydrogen Plant Heater HU-2	27.4	27.4	27.4	27.4	N/A	N/A	N/A
802	GOHT F-901A; GOHT Heater F-901A	0.4	1.5	1.5	1.5	N/A	N/A	N/A
802	GOHT F-902B; GOHT Heater F-902B	0.4	1.5	1.5	1.5	N/A	N/A	N/A
130	12 PS H-101A; 12 PS Heater H-101A	2.9	11.6	11.6	11.6	N/A	N/A	N/A
130	12 PS H-101B; 12 PS Heater H-101B	2.9	11.6	11.6	11.6	N/A	N/A	N/A
130	12 PS H-102; 12 PS Heater H-102	2.7	10.8	10.8	10.8	N/A	N/A	N/A
162	SRU (COT-1, COT-2); Sulfur Recovery Complex	1.2	4.7	4.7	4.7	N/A	N/A	N/A
802	GOHT Flare	0.03	0.12	0.12	0.03	N/A	N/A	N/A
800	South Flare	0.03	0.14	0.14	0.03	N/A	N/A	N/A
801	HU Flare	0.002	0.01	0.01	0.002	N/A	N/A	N/A

803	Cooling Tower 7	0.5	0.5	0.5	0.5	N/A	N/A	N/A
803	Cooling Tower 8	2.2	2.2	2.2	2.2	N/A	N/A	N/A
801	HU Cooling Tower	1.8	1.8	1.8	1.8	N/A	N/A	N/A
800	Coke Storage and Handling	1.4	0.7	0.7	1.4	1.4	1.4	1.4e-6
210	ISOM H-1; Isomerization Unit Heater H-1	1.2	5.0	5.0	5.0	N/A	N/A	N/A
120	11PS H-200; No. 11 Pipe Still Heater H-200	1.5	6.0	6.0	6.0	N/A	N/A	N/A
240	FCU 600; Fluid Catalytic Cracking Unit 600	75.0	75.0	75.0	75.0	N/A	N/A	N/A
250	F-401; Blending Oil Unit Heater F-401	0.2	0.8	0.8	0.8	N/A	N/A	N/A
803	Cooling Tower 2	0.9	0.9	0.9	0.9	N/A	N/A	N/A
803	Cooling Tower 3	2.2	2.2	2.2	2.2	N/A	N/A	N/A
803	Cooling Tower 4	1.5	1.5	1.5	1.5	N/A	N/A	N/A
720	B-601A; Distillate Hydrotreating Unit Heater B-601A	0.3	1.4	1.4	1.4	N/A	N/A	N/A
805	Concrete Crushing	0.08	0.03	0.03	0.08	0.08	0.08	N/A

*** Potential to Emit estimates are for CXHO project changes only.**

Part C: Control of Particulate Emissions

Part C is intended to gather information about how each source of particulate emissions is controlled. If you do not provide the enough information to adequately describe how each source of particulate emissions is controlled, the application process may be stopped. If additional space is needed, you may make a copy of this table.

10. **Emissions Point ID**	11. **Control Measure**	12. **Control Measure Description**	13. **Control Plan**
800 (H-201)	☑ No Control ☐ Dust Suppression ☐ Other:_____	N/A	☑ No ☐ Yes Date Submitted: N/A
800 (H-202)	☑ No Control ☐ Dust Suppression ☐ Other:_____	N/A	☑ No ☐ Yes Date Submitted: N/A
800 (H-203)	☑ No Control ☐ Dust Suppression ☐ Other:_____	N/A	☑ No ☐ Yes Date Submitted: N/A
801 (HU-1)	☑ No Control ☐ Dust Suppression ☐ Other:_____	N/A	☑ No ☐ Yes Date Submitted: N/A
801 (HU-2)	☑ No Control ☐ Dust Suppression ☐ Other:_____	N/A	☑ No ☐ Yes Date Submitted: N/A
802 (GOHT F-901A)	☑ No Control ☐ Dust Suppression ☐ Other:_____	N/A	☑ No ☐ Yes Date Submitted: N/A
802 (GOHT F-901B)	☑ No Control ☐ Dust Suppression ☐ Other:_____	N/A	☑ No ☐ Yes Date Submitted: N/A

130 (H-101A)	☑ No Control ☐ Dust Suppression ☐ Other:_____	N/A	☑ No ☐ Yes Date Submitted: N/A
130 (H-101B)	☑ No Control ☐ Dust Suppression ☐ Other:_____	N/A	☑ No ☐ Yes Date Submitted: N/A
130 (H-102)	☑ No Control ☐ Dust Suppression ☐ Other:_____	N/A	☑ No ☐ Yes Date Submitted: N/A
162 (COT-1 and COT-2)	☑ No Control ☐ Dust Suppression ☐ Other:_____	N/A	☑ No ☐ Yes Date Submitted: N/A
802 (Flare)	☑ No Control ☐ Dust Suppression ☐ Other:_____	N/A	☑ No ☐ Yes Date Submitted: N/A
800 (Flare)	☑ No Control ☐ Dust Suppression ☐ Other:_____	N/A	☑ No ☐ Yes Date Submitted: N/A
801 (Flare)	☑ No Control ☐ Dust Suppression ☐ Other:_____	N/A	☑ No ☐ Yes Date Submitted: N/A
803 (Cooling Tower 7)	☐ No Control ☐ Dust Suppression ☑ Other:_____	Drift Eliminator	☑ No ☐ Yes Date Submitted: N/A
803 (Cooling Tower 8)	☐ No Control ☐ Dust Suppression ☑ Other:_____	Drift Eliminator	☑ No ☐ Yes Date Submitted: N/A
801 (HU Cooling Tower)	☐ No Control ☐ Dust Suppression ☑ Other:_____	Drift Eliminator	☑ No ☐ Yes Date Submitted: N/A

800 (Coke Storage and Handling)	☐ No Control ☑ Dust Suppression ☐ Other:_____	N/A	☑ No ☐Yes Date Submitted:
210 (ISOM H-1)	☑No Control ☐ Dust Suppression ☐ Other:_____	N/A	☑ No ☐ Yes Date Submitted:
120 (11PS H-200)	☑ No Control ☐ Dust Suppression ☐ Other:_____	N/A	☑ No ☐ Yes Date Submitted: N/A
240 (FCU 600)	☐ No Control ☐ Dust Suppression ☑ Other: ESP_____	Note no modifications to the existing ESP are being made as part of this project.	☑ No ☐ Yes Date Submitted: N/A
250 (BOU F-401)	☑ No Control ☐ Dust Suppression ☐ Other:_____	N/A	☑ No ☐ Yes Date Submitted: N/A
803 (Cooling Tower 2)	☐ No Control ☐ Dust Suppression ☑ Other:_____	Drift Eliminator	☑ No ☐ Yes Date Submitted: N/A
803 (Cooling Tower 3)	☐ No Control ☐ Dust Suppression ☑ Other:_____	Drift Eliminator	☑ No ☐ Yes Date Submitted: N/A
803 (Cooling Tower 4)	☐ No Control ☐ Dust Suppression ☑ Other:_____	Drift Eliminator	☑ No ☐ Yes Date Submitted: N/A
720 (DHT B-601A)	☑ No Control ☐ Dust Suppression ☐ Other:_____	N/A	☑ No ☐ Yes Date Submitted: N/A
805 (Concrete Crushing)	☑ No Control ☐ Dust Suppression ☐ Other:_____	N/A	☑ No ☐ Yes Date Submitted: N/A

2

GSD-07 GENERAL SOURCE DATA—
CRITERIA POLLUTANT EMISSIONS SUMMARY

State Form 51602 (R / 9-04)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch
100 N. Senate Avenue
Indianapolis, IN 46204
Telephone: (317) 233-0178 or
Toll Free: 1-800-451-6027 x30178 (within Indiana)
Facsimile Number: (317) 232-6749
Http://www.IN.gov/idem/air/permits/index.html

FOR OFFICE USE ONLY

PERMIT NUMBER:

NOTES:

- This form is required for all air permit applications.
- The purpose of this form is to provide the actual and potential emissions of each criteria pollutant emitted from the source.
- Detailed instructions for this form are available online at http://www.IN.gov.idem/air/permits/apps/instructions/gsd07instructions.pdf
- All information submitted will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly, will result in your information becoming a public record, available for any one to inspect and photocopy.

Part A: Unit Emissions Summary

Part A is intended to provide the actual and potential emissions of each criteria pollutant emitted from each emissions unit. If you do not provide the enough information to adequately describe the emissions from each emissions unit, the application process may be stopped.

1. Unit ID	2. Stack/Vent ID	3. Criteria Pollutant	4. Actual Emissions		5. Potential To Emit	
			Standard Units	Tons Per Year	Standard Units	Tons Per Year
800	800-01	PM	0.5 lb/hr	2.3	0.5 lb/hr	2.3
800	800-01	PM_{10}	1.7 lb/hr	7.4	1.7 lb/hr	7.4
800	800-01	$PM_{2.5}$	1.7 lb/hr	7.4	1.7 lb/hr	7.4
800	800-01	SO_2	2.3 lb/hr	10.1	2.3 lb/hr	10.1
800	800-01	NO_x	4.2 lb/hr	18.2	4.2 lb/hr	18.2
800	800-01	VOC	1.1 lb/hr	4.9	1.1 lb/hr	4.9
800	800-01	CO	4.0 lb/hr	17.3	4.0 lb/hr	17.3
800	800-01	Lead	1.0E-04 lb/hr	4.5E-04	1.0E-04 lb/hr	4.5E-04
800	800-01	Sulfuric Acid	0.11 lb/hr	0.46	0.11 lb/hr	0.46
800	800-01	Mercury	3.7E-05 lb/hr	1.6E-04	3.7E-05 lb/hr	1.6E-04
800	800-01	Beryllium	2.4E-06 lb/hr	1.1E-05	2.4E-06 lb/hr	1.1E-05
800	800-02	PM	0.5 lb/hr	2.3	0.5 lb/hr	2.3
800	800-02	PM_{10}	1.7 lb/hr	7.4	1.7 lb/hr	7.4
800	800-02	$PM_{2.5}$	1.7 lb/hr	7.4	1.7 lb/hr	7.4
800	800-02	SO_2	2.3 lb/hr	10.1	2.3 lb/hr	10.1

800	800-02	NO_x	4.2 lb/hr	18.2	4.2 lb/hr	18.2
800	800-02	VOC	1.1 lb/hr	4.9	1.1 lb/hr	4.9
800	800-02	CO	4.0 lb/hr	17.3	4.0 lb/hr	17.3
800	800-02	Lead	1.0E-04 lb/hr	4.5E-04	1.0E-04 lb/hr	4.5E-04
800	800-02	Sulfuric Acid	0.11 lb/hr	0.46	0.11 lb/hr	0.46
800	800-02	Mercury	3.7E-05 lb/hr	1.6E-04	3.7E-05 lb/hr	1.6E-04
800	800-02	Beryllium	2.4E-06 lb/hr	1.1E-05	2.4E-06 lb/hr	1.1E-05
800	800-03	PM	0.5 lb/hr	2.3	0.5 lb/hr	2.3
800	800-03	PM_{10}	1.7 lb/hr	7.4	1.7 lb/hr	7.4
800	800-03	$PM_{2.5}$	1.7 lb/hr	7.4	1.7 lb/hr	7.4
800	800-03	SO_2	2.3 lb/hr	10.1	2.3 lb/hr	10.1
800	800-03	NO_x	4.2 lb/hr	18.2	4.2 lb/hr	18.2
800	800-03	VOC	1.1 lb/hr	4.9	1.1 lb/hr	4.9
800	800-03	CO	4.0 lb/hr	17.3	4.0 lb/hr	17.3
800	800-03	Lead	1.0E-04 lb/hr	4.5E-04	1.0E-04 lb/hr	4.5E-04
800	800-03	Sulfuric Acid	0.11 lb/hr	0.46	0.11 lb/hr	0.46
800	800-03	Mercury	3.7E-05 lb/hr	1.6E-04	3.7E-05 lb/hr	1.6E-04
800	800-03	Beryllium	2.4E-06 lb/hr	1.1E-05	2.4E-06 lb/hr	1.1E-05
801	801-01	PM	6.3 lb/hr	27.4	6.3 lb/hr	27.4
801	801-01	PM_{10}	6.3 lb/hr	27.4	6.3 lb/hr	27.4
801	801-01	$PM_{2.5}$	6.3 lb/hr	27.4	6.3 lb/hr	27.4
801	801-01	SO_2	0.1 lb/hr	0.6	0.1 lb/hr	0.6
801	801-01	NO_x	12.0 lb/hr	52.4	12.0 lb/hr	52.4
801	801-01	VOC	3.1 lb/hr	13.7	3.1 lb/hr	13.7
801	801-01	CO	13.8 lb/hr	60.4	13.8 lb/hr	60.4
801	801-01	Lead	1.1E-04 lb/hr	4.9E-04	1.1E-04 lb/hr	4.9E-04
801	801-01	Sulfuric Acid	0.01 lb/hr	0.03	0.01 lb/hr	0.03
801	801-01	Mercury	4.1E-05 lb/hr	1.8E-04	4.1E-05 lb/hr	1.8E-04
801	801-01	Beryllium	2.7E-06 lb/hr	1.2E-05	2.7E-06 lb/hr	1.2E-05
801	801-02	PM	6.3 lb/hr	27.4	6.3 lb/hr	27.4

801	801-02	PM_{10}	6.3 lb/hr	27.4	6.3 lb/hr	27.4
801	801-02	$PM_{2.5}$	6.3 lb/hr	27.4	6.3 lb/hr	27.4
801	801-02	SO_2	0.1 lb/hr	0.6	0.1 lb/hr	0.6
801	801-02	NO_x	12.0 lb/hr	52.4	12.0 lb/hr	52.4
801	801-02	VOC	3.1 lb/hr	13.7	3.1 lb/hr	13.7
801	801-02	CO	13.8 lb/hr	60.4	13.8 lb/hr	60.4
801	801-02	Lead	1.1E-04 lb/hr	4.9E-04	1.1E-04 lb/hr	4.9E-04
801	801-02	Sulfuric Acid	0.01 lb/hr	0.03	0.01 lb/hr	0.03
801	801-02	Mercury	4.1E-05 lb/hr	1.8E-04	4.1E-05 lb/hr	1.8E-04
801	801-02	Beryllium	2.7E-06 lb/hr	1.2E-05	2.7E-06 lb/hr	1.2E-05
801	801-03	PM	0.000 lb/hr	0.002	0.000 lb/hr	0.002
801	801-03	PM_{10}	0.002 lb/hr	0.008	0.002 lb/hr	0.008
801	801-03	$PM_{2.5}$	0.002 lb/hr	0.008	0.002 lb/hr	0.008
801	801-03	SO_2	0.000 lb/hr	0.000	0.000 lb/hr	0.000
801	801-03	NO_x	0.03 lb/hr	0.11	0.03 lb/hr	0.11
801	801-03	VOC	0.001 lb/hr	0.006	0.001 lb/hr	0.006
801	801-03	CO	0.02 lb/hr	0.09	0.02 lb/hr	0.09
801	801-03	Lead	1.3E-07 lb/hr	5.6E-07	1.3E-07 lb/hr	5.6E-07
801	801-03	Sulfuric Acid	0.00 lb/hr	0.00	0.00 lb/hr	0.00
801	801-03	Mercury	4.7E-08 lb/hr	2.1E-07	4.7E-08 lb/hr	2.1E-07
801	801-03	Beryllium	3.1E-09 lb/hr	1.3E-08	3.1E-09 lb/hr	1.3E-08
801	801-04	PM	0.42 lb/hr	1.8	0.42 lb/hr	1.8
801	801-04	PM_{10}	0.42 lb/hr	1.8	0.42 lb/hr	1.8
801	801-04	$PM_{2.5}$	0.42 lb/hr	1.8	0.42 lb/hr	1.8
802	802-01	PM	0.1 lb/hr	0.4	0.1 lb/hr	0.4
802	802-01	PM_{10}	0.4 lb/hr	1.5	0.4 lb/hr	1.5
802	802-01	$PM_{2.5}$	0.4 lb/hr	1.5	0.4 lb/hr	1.5
802	802-01	SO_2	0.5 lb/hr	2.3	0.5 lb/hr	2.3

802	802-01	NO_x	1.9 lb/hr	8.2	1.9 lb/hr	8.2
802	802-01	VOC	0.3 lb/hr	1.1	0.3 lb/hr	1.1
802	802-01	CO	0.9 lb/hr	4.1	0.9 lb/hr	4.1
802	802-01	Lead	2.3E-05 lb/hr	1.0E-04	2.3E-05 lb/hr	1.0E-04
802	802-01	Sulfuric Acid	0.02 lb/hr	0.10	0.02 lb/hr	0.10
802	802-01	Mercury	8.5E-06 lb/hr	3.7E-05	8.5E-06 lb/hr	3.7E-05
802	802-01	Beryllium	5.5E-07 lb/hr	2.4E-06	5.5E-07 lb/hr	2.4E-06
130	130-06	PM	0.6 lb/hr	2.7	0.6 lb/hr	2.7
130	130-06	PM_{10}	2.5 lb/hr	10.8	2.5 lb/hr	10.8
130	130-06	$PM_{2.5}$	2.5 lb/hr	10.8	2.5 lb/hr	10.8
130	130-06	SO_2	3.7 lb/hr	16.0	3.7 lb/hr	16.0
130	130-06	NO_x	16.6 lb/hr	72.5	16.6 lb/hr	72.5
130	130-06	VOC	1.8 lb/hr	7.8	1.8 lb/hr	7.8
130	130-06	CO	6.3 lb/hr	27.5	6.3 lb/hr	27.5
130	130-06	Lead	1.6E-04 lb/hr	7.1E-04	1.6E-04 lb/hr	7.1E-04
130	130-06	Sulfuric Acid	0.17 lb/hr	0.74	0.17 lb/hr	0.74
130	130-06	Mercury	6.0E-05 lb/hr	2.6E-04	6.0E-05 lb/hr	2.6E-04
130	130-06	Beryllium	3.9E-06 lb/hr	1.7E-05	3.9E-06 lb/hr	1.7E-05
162	162-06, 162-07	PM	0.3 lb/hr	1.2	0.3 lb/hr	1.2
162	162-06, 162-07	PM_{10}	1.1 lb/hr	4.7	1.1 lb/hr	4.7
162	162-06, 162-07	$PM_{2.5}$	1.1 lb/hr	4.7	1.1 lb/hr	4.7
162	162-06, 162-07	SO_2	44.5 lb/hr	194.8	44.5 lb/hr	194.8
162	162-06, 162-07	NO_x	11.5 lb/hr	50.5	11.5 lb/hr	50.5
162	162-06, 162-07	VOC	0.8 lb/hr	3.4	0.8 lb/hr	3.4
162	162-06, 162-07	CO	12.6 lb/hr	55.0	12.6 lb/hr	55.0
162	162-06, 162-07	Lead	7.1E-05 lb/hr	3.1E-04	7.1E-05 lb/hr	3.1E-04
162	162-06, 162-07	Sulfuric Acid	2.041 lb/hr	8.9	2.041 lb/hr	8.9
162	162-06, 162-07	Mercury	2.59E-05 lb/hr	1.14E-04	2.59E-05 lb/hr	1.14E-04
162	162-06, 162-07	Beryllium	1.69E-06 lb/hr	7.4E-06	1.69E-06 lb/hr	7.4E-06
162	162-06, 162-07	H_2S	3.3 lb/hr	14.3	3.3 lb/hr	14.3
162	162-06, 162-07	Total Reduced Sulfur	3.3 lb/hr	14.3	3.3 lb/hr	14.3

802	802-02	PM	0.1 lb/hr	0.4	0.1 lb/hr	0.4
802	802-02	PM_{10}	0.4 lb/hr	1.5	0.4 lb/hr	1.5
802	802-02	$PM_{2.5}$	0.4 lb/hr	1.5	0.4 lb/hr	1.5
802	802-02	SO_2	0.5 lb/hr	2.3	0.5 lb/hr	2.3
802	802-02	NO_x	1.9 lb/hr	8.2	1.9 lb/hr	8.2
802	802-02	VOC	0.3 lb/hr	1.1	0.3 lb/hr	1.1
802	802-02	CO	0.9 lb/hr	4.1	0.9 lb/hr	4.1
802	802-02	Lead	2.3E-05 lb/hr	1.0E-04	2.3E-05 lb/hr	1.0E-04
802	802-02	Sulfuric Acid	0.02 lb/hr	0.10	0.02 lb/hr	0.10
802	802-02	Mercury	8.5E-06 lb/hr	3.7E-05	8.5E-06 lb/hr	3.7E-05
802	802-02	Beryllium	5.5E-07 lb/hr	2.4E-06	5.5E-07 lb/hr	2.4E-06
802	802-03	PM	0.01 lb/hr	0.03	0.01 lb/hr	0.03
802	802-03	PM_{10}	0.03 lb/hr	0.12	0.03 lb/hr	0.12
802	802-03	$PM_{2.5}$	0.03 lb/hr	0.12	0.03 lb/hr	0.12
802	802-03	SO_2	0.04 lb/hr	0.17	0.04 lb/hr	0.17
802	802-03	NO_x	0.03 lb/hr	1.2	0.03 lb/hr	1.2
802	802-03	VOC	0.5 lb/hr	2.1	0.5 lb/hr	2.1
802	802-03	CO	1.3 lb/hr	5.7	1.3 lb/hr	5.7
802	802-03	Lead	1.9E-06 lb/hr	8.2E-06	1.9E-06 lb/hr	8.2E-06
802	802-03	Sulfuric Acid	0.002 lb/hr	0.01	0.002 lb/hr	0.01
802	802-03	Mercury	6.9E-07 lb/hr	3.0E-06	6.9E-07 lb/hr	3.0E-06
802	802-03	Beryllium	8.7E-07 lb/hr	3.8E-06	8.7E-07 lb/hr	3.8E-06
800	800-04	PM	0.007 lb/hr	0.03	0.007 lb/hr	0.03
800	800-04	PM_{10}	0.033 lb/hr	0.14	0.033 lb/hr	0.14
800	800-04	$PM_{2.5}$	0.033 lb/hr	0.14	0.033 lb/hr	0.14
800	800-04	SO_2	0.04 lb/hr	0.2	0.04 lb/hr	0.2
800	800-04	NO_x	0.3 lb/hr	1.4	0.3 lb/hr	1.4
800	800-04	VOC	0.6 lb/hr	2.4	0.6 lb/hr	2.4
800	800-04	CO	1.5 lb/hr	6.6	1.5 lb/hr	6.6
800	800-04	Lead	2.2E-06 lb/hr	9.4E-06	2.2E-06 lb/hr	9.4E-06
800	800-04	Sulfuric Acid	0.00 lb/hr	0.01	0.00 lb/hr	0.01
800	800-04	Mercury	2.0E-06 lb/hr	8.9E-06	2.0E-06 lb/hr	8.9E-06

800	800-04	Beryllium	2.0E-06 lb/hr	8.5E-06	2.0E-06 lb/hr	8.5E-06
800	800-05	VOC	0.01 lb/hr	0.06	0.01 lb/hr	0.06
544	544-22	VOC	0.00 lb/hr	0.01	0.00 lb/hr	0.01
803	803-07	PM	0.1 lb/hr	0.5	0.1 lb/hr	0.5
803	803-07	PM10	0.1 lb/hr	0.5	0.1 lb/hr	0.5
803	803-07	PM2.5	0.1 lb/hr	0.5	0.1 lb/hr	0.5
803	803-07	VOC	0.9 lb/hr	3.9	0.9 lb/hr	3.9
803	803-08	PM	0.5 lb/hr	2.2	0.5 lb/hr	2.2
803	803-08	PM10	0.5 lb/hr	2.2	0.5 lb/hr	2.2
803	803-08	PM2.5	0.5 lb/hr	2.2	0.5 lb/hr	2.2
803	803-08	VOC	3.9 lb/hr	17.1	3.9 lb/hr	17.1
162	162-09/162-10	H_2S	0.11 lb/hr	0.5	0.11 lb/hr	0.5
162	162-09/162-10	Total Reduced Sulfur	0.11 lb/hr	0.5	0.11 lb/hr	0.5
210	210-01	PM	0.3 lb/hr	1.2	0.3 lb/hr	1.2
210	210-01	PM_{10}	1.1 lb/hr	5.0	1.1 lb/hr	5.0
210	210-01	$PM_{2.5}$	1.1 lb/hr	5.0	1.1 lb/hr	5.0
210	210-01	SO_2	1.7 lb/hr	7.4	1.7 lb/hr	7.4
210	210-01	NO_x	42.1 lb/hr	184.2	42.1 lb/hr	184.2
210	210-01	VOC	0.8 lb/hr	3.6	0.8 lb/hr	3.6
210	210-01	CO	12.6 lb/hr	55.3	12.6 lb/hr	55.3
210	210-01	Lead	7.5E-05 lb/hr	3.3E-04	7.5E-05 lb/hr	3.3E-04
210	210-01	Sulfuric Acid	0.08 lb/hr	0.34	0.08 lb/hr	0.34
210	210-01	Mercury	2.8E-05 lb/hr	1.2E-04	2.8E-05 lb/hr	1.2E-04
210	210-01	Beryllium	1.8E-06 lb/hr	7.9E-06	1.8E-06 lb/hr	7.9E-06
120	120-05	PM	0.3 lb/hr	1.5	0.3 lb/hr	1.5
120	120-05	PM_{10}	1.4 lb/hr	6.0	1.4 lb/hr	6.0
120	120-05	$PM_{2.5}$	1.4 lb/hr	6.0	1.4 lb/hr	6.0
120	120-05	SO_2	2.0 lb/hr	8.9	2.0 lb/hr	8.9
120	120-05	NO_x	9.1 lb/hr	40.0	9.1 lb/hr	40.0
120	120-05	VOC	1.0 lb/hr	4.3	1.0 lb/hr	4.3
120	120-05	CO	15.1 lb/hr	65.9	15.1 lb/hr	65.9

120	120-05	Lead	9.0E-05 lb/hr	3.9E-04	9.0E-05 lb/hr	3.9E-04
120	120-05	Sulfuric Acid	0.09 lb/hr	0.41	0.09 lb/hr	0.41
120	120-05	Mercury	3.3E-05 lb/hr	1.4E-04	3.3E-05 lb/hr	1.4E-04
120	120-05	Beryllium	2.2E-06 lb/hr	9.4E-06	2.2E-06 lb/hr	9.4E-06
240	240-01	PM	17.1 lb/hr	75.0	17.1 lb/hr	75.0
240	240-01	PM_{10}	17.1 lb/hr	75.0	17.1 lb/hr	75.0
240	240-01	$PM_{2.5}$	17.1 lb/hr	75.0	17.1 lb/hr	75.0
240	240-01	SO_2	43.4 lb/hr	190.0	43.4 lb/hr	190.0
240	240-01	NO_x	11.4 lb/hr	49.7	11.4 lb/hr	49.7
240	240-01	VOC	9.1 lb/hr	39.7	9.1 lb/hr	39.7
240	240-01	CO	21.0 lb/hr	92.1	21.0 lb/hr	92.1
240	240-01	Lead	0.012 lb/hr	0.055	0.012 lb/hr	0.055
240	240-01	Sulfuric Acid	1.99 lb/hr	8.72	1.99 lb/hr	8.72
240	240-01	Mercury	4.90E-05 lb/hr	2.14E-04	4.90E-05 lb/hr	2.14E-04
240	240-01	Beryllium	1.72E-04 lb/hr	7.53E-04	1.72E-04 lb/hr	7.53E-04
803	803-02	PM	0.2 lb/hr	0.9	0.2 lb/hr	0.9
803	803-02	PM_{10}	0.2 lb/hr	0.9	0.2 lb/hr	0.9
803	803-02	$PM_{2.5}$	0.2 lb/hr	0.9	0.2 lb/hr	0.9
803	803-03	PM	0.5 lb/hr	2.2	0.5 lb/hr	2.2
803	803-03	PM_{10}	0.5 lb/hr	2.2	0.5 lb/hr	2.2
803	803-03	$PM_{2.5}$	0.5 lb/hr	2.2	0.5 lb/hr	2.2
803	803-04	PM	0.4 lb/hr	1.5	0.4 lb/hr	1.5
803	803-04	PM_{10}	0.4 lb/hr	1.5	0.4 lb/hr	1.5
803	803-04	$PM_{2.5}$	0.4 lb/hr	1.5	0.4 lb/hr	1.5
720	720-01	PM	0.1 lb/hr	0.3	0.1 lb/hr	0.3
720	720-01	PM_{10}	0.3 lb/hr	1.4	0.3 lb/hr	1.4
720	720-01	$PM_{2.5}$	0.3 lb/hr	1.4	0.3 lb/hr	1.4
720	720-01	SO_2	0.02 lb/hr	0.1	0.02 lb/hr	0.1
720	720-01	NO_x	1.7 lb/hr	7.3	1.7 lb/hr	7.3
720	720-01	VOC	0.2 lb/hr	1.0	0.2 lb/hr	1.0
720	720-01	CO	1.7 lb/hr	7.3	1.7 lb/hr	7.3

720	720-01	Lead	2.1E-05 lb/hr	9.1E-05	2.1E-05 lb/hr	9.1E-05
720	720-01	Sulfuric Acid	0.001 lb/hr	0.005	0.001 lb/hr	0.005
720	720-01	Mercury	7.5E-06 lb/hr	3.3E-05	7.5E-06 lb/hr	3.3E-05
720	720-01	Beryllium	4.9E-07 lb/hr	2.2E-06	4.9E-07 lb/hr	2.2E-06
Marine Dock Loading	NA	CO	0.5 lb/hr	2.2	0.5 lb/hr	2.2
Marine Dock Loading	NA	VOC	1.60 lb/hr	7.0	1.60 lb/hr	7.0
Marine Dock Loading	NA	NO_x	1.28 lb/hr	5.6	1.28 lb/hr	5.6
130	130-05	PM	0.7 lb/hr	2.9	0.7 lb/hr	2.9
130	130-05	PM_{10}	2.6 lb/hr	11.6	2.6 lb/hr	11.6
130	130-05	$PM_{2.5}$	2.6 lb/hr	11.6	2.6 lb/hr	11.6
130	130-05	SO_2	3.9 lb/hr	17.2	3.9 lb/hr	17.2
130	130-05	NO_x	17.8 lb/hr	77.7	17.8 lb/hr	77.7
130	130-05	VOC	1.9 lb/hr	8.4	1.9 lb/hr	8.4
130	130-05	CO	6.7 lb/hr	29.5	6.7 lb/hr	29.5
130	130-05	Lead	1.7E-04 lb/hr	7.6E-04	1.7E-04 lb/hr	7.6E-04
130	130-05	Sulfuric Acid	0.18 lb/hr	0.79	0.18 lb/hr	0.79
130	130-05	Mercury	6.4E-05 lb/hr	2.8E-04	6.4E-05 lb/hr	2.8E-04
130	130-05	Beryllium	4.2E-06 lb/hr	1.8E-05	4.2E-06 lb/hr	1.8E-05
130	130-07	PM	0.7 lb/hr	2.9	0.7 lb/hr	2.9
130	130-07	PM_{10}	2.6 lb/hr	11.6	2.6 lb/hr	11.6
130	130-07	$PM_{2.5}$	2.6 lb/hr	11.6	2.6 lb/hr	11.6
130	130-07	SO_2	3.9 lb/hr	17.2	3.9 lb/hr	17.2
130	130-07	NO_x	17.8 lb/hr	77.7	17.8 lb/hr	77.7
130	130-07	VOC	1.9 lb/hr	8.4	1.9 lb/hr	8.4
130	130-07	CO	6.7 lb/hr	29.5	6.7 lb/hr	29.5
130	130-07	Lead	1.7E-04 lb/hr	7.6E-04	1.7E-04 lb/hr	7.6E-04
130	130-07	Sulfuric Acid	0.18 lb/hr	0.79	0.18 lb/hr	0.79
130	130-07	Mercury	6.4E-05 lb/hr	2.8E-04	6.4E-05 lb/hr	2.8E-04

130	130-07	Beryllium	4.2E-06 lb/hr	1.8E-05	4.2E-06 lb/hr	1.8E-05
250	250-01	PM	0.04 lb/hr	0.2	0.04 lb/hr	0.2
250	250-01	PM_{10}	0.2 lb/hr	0.8	0.2 lb/hr	0.8
250	250-01	$PM_{2.5}$	0.2 lb/hr	0.8	0.2 lb/hr	0.8
250	250-01	SO_2	0.3 lb/hr	1.1	0.3 lb/hr	1.1
250	250-01	NO_x	2.3 lb/hr	9.9	2.3 lb/hr	9.9
250	250-01	VOC	0.1 lb/hr	0.5	0.1 lb/hr	0.5
250	250-01	CO	1.9 lb/hr	8.3	1.9 lb/hr	8.3
250	250-01	Lead	1.1E-05 lb/hr	4.9E-05	1.1E-05 lb/hr	4.9E-05
250	250-01	Sulfuric Acid	0.01 lb/hr	0.05	0.01 lb/hr	0.05
250	250-01	Mercury	4.1E-06 lb/hr	1.8E-05	4.1E-06 lb/hr	1.8E-05
250	250-01	Beryllium	2.7E-07 lb/hr	1.2E-06	2.7E-07 lb/hr	1.2E-06
804	804-01	VOC	0.16 lb/hr	0.72	0.16 lb/hr	0.72
804	804-02	VOC	0.16 lb/hr	0.72	0.16 lb/hr	0.72
804	804-03	VOC	0.10 lb/hr	0.43	0.10 lb/hr	0.43
804	804-04	VOC	0.10 lb/hr	0.43	0.10 lb/hr	0.43
804	804-05	VOC	0.10 lb/hr	0.43	0.10 lb/hr	0.43
804	804-06	VOC	0.10 lb/hr	0.44	0.10 lb/hr	0.44
804	804-07	VOC	0.10 lb/hr	0.44	0.10 lb/hr	0.44
Fugitive VOC from Processes	NA	VOC	21.5 lb/hr	94.0	21.5 lb/hr	94.0
800	N/A (Coke Storage and Handling)	PM	0.3 lb/hr	1.4	0.3 lb/hr	1.4
800	N/A (Coke Storage and Handling)	PM_{10}	0.2 lb/hr	0.7	0.2 lb/hr	0.7
800	N/A (Coke Storage and Handling)	$PM_{2.5}$	0.2 lb/hr	0.7	0.2 lb/hr	0.7
805	805-01 (Concrete Crushing)	PM	0.02 lb/hr	0.08	0.02 lb/hr	0.08
805	805-01 (Concrete Crushing)	PM_{10}	0.007 lb/hr	0.03	0.007 lb/hr	0.03
805	805-01 (Concrete Crushing)	$PM_{2.5}$	0.007 lb/hr	0.03	0.007 lb/hr	0.03

Part B is intended to provide the total actual and potential emissions of each criteria pollutant emitted from the source (including all emissions units and fugitive emissions at the source). If you do not provide the enough information to adequately describe the total source emissions, the application process may be stopped.

6. Criteria Pollutant	7. Actual Emissions*		8. Potential To Emit*	
	Standard Units	Tons Per Year	Standard Units	Tons Per Year
PM	36.8 lb/hr	161.4	36.8 lb/hr	161.4
PM_{10}	49.6 lb/hr	217.2	49.6 lb/hr	217.2
$PM_{2.5}$	49.6 lb/hr	217.2	49.6 lb/hr	217.2
SO_2	111.7 lb/hr	489.0	111.7 lb/hr	489.0
NO_x	172.1 lb/hr	753.8	172.1 lb/hr	753.8
VOC	59.0 lb/hr	258.6	59.0 lb/hr	258.6
CO	135.0 lb/hr	591.2	135.0 lb/hr	591.2
Lead	1.38E-02 lb/hr	6.06E-02	1.38E-02 lb/hr	6.06E-02
Sulfuric Acid	5.1 lb/hr	22.4	5.1 lb/hr	22.4
Mercury	5.5E-04 lb/hr	2.41E-03	5.5E-04 lb/hr	2.41E-03
Beryllium	3.53E-05 lb/hr	1.55E-04	3.53E-05 lb/hr	1.55E-04
H_2S	3.4 lb/hr	14.8	3.4 lb/hr	14.8
Total Reduced Sulfur	3.4 lb/hr	14.8	3.4 lb/hr	14.8

***The emissions shown in this table represent only the emissions increases attributable to the CXHO project.**